

U.S. Patent Application Serial No. 10/758,333
Reply to Office Action dated November 09, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application.

Claim 1 is amended.

Listing of Claims:

1. (Currently Amended) A steer-by-wire vehicle steering apparatus comprising:

a steering operator member electrically operatively connected to a steerable road wheel;

drive means for steering the steerable road wheel, in response to operation of said steering operator member, via [[the]] an electric wire;

detection means for detecting a steering angle of said steering operator member, an angle of travel direction of the vehicle and an actual steered angle of the steerable road wheel steered by said drive means;

control means for controlling said drive section in response to detection by said detection means in such a manner that the angle of travel direction of the vehicle and the steering angle of said steering operator member agree with each other; and

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resistive force generation means for generating and imparting a steering resistive force to said steering operator member in accordance with the actual steered angle of the steerable road wheel detected by said detection means.

2. (Original) A steer-by-wire vehicle steering apparatus as claimed in claim 1 wherein the steering resistive force is varied in accordance with a velocity of the vehicle.
3. (Original) A steer-by-wire steering apparatus as claimed in claim 1 wherein the steering resistive force is varied in accordance with a product between a target road-wheel steering angle and a velocity of the vehicle.
4. (Original) A steer-by-wire vehicle steering apparatus as claimed in claim 1 wherein the steering resistive force is varied in accordance with a product between a target road-wheel steering angle and a square of a velocity of the vehicle.